

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A polymer emulsion which is ~~mixed a~~ mixture of a synthetic large particle polymer emulsion containing polymers having ~~the~~ a particle size of 0.15 μ m or longer in diameter and a synthetic fine particle polymer emulsion containing polymers having ~~the~~ a particle size of 0.10 μ m or shorter in diameter, wherein the glass transition temperature of the latter polymer is at least 20 ~~degree~~ degrees lower than that of the former emulsion and the particle size ratio between the former polymer and the latter polymer is 2 or more.

2. (Original) A polymer emulsion according to claim 1, wherein the content of the large particle polymer emulsion is 50% to 95% by weight and the content of the fine particle polymer emulsion is 50% to 5% by weight.

3. (Original) A polymer emulsion according to claim 1, wherein the large particle polymer emulsion comprises 40 - 60% of a polymer, 0.1 - 4% of an emulsifier and 35 - 58% of water, and the fine polymer emulsion comprises 30 - 60% of a polymer, 0.2 - 6% of an emulsifier and 35 - 68% of water.

4. (Currently Amended) A polymer emulsion according to claim 1, wherein the large particle polymer emulsion and the fine polymer emulsion are styrene-butadiene emulsion, acrylic emulsion, styrene-acrylic emulsion, vinyl chloride emulsion, vinylidene chloride emulsion or vinyl-acetate emulsion.

5. (Currently Amended) A paper coating composition for making moisture-proof coated paper and/or recyclable-coated paper, which comprises the polymer emulsion described in claim 1 and a wax.

6. (New) A moisture-proof coated paper having a coating that comprises the polymer emulsion described in claim 1 and a wax.

7. (New) A recyclable-coated paper having a coating that comprises the polymer emulsion described in claim 1 and a wax.